EXHIBIT 9

Issue Number: N172404 PDF Date Submitted 01/07/2005

☑ Part - Location: Ignition Key Cylinder Assembly -Column - Steering

Issue Type: Current Prod Vehicle/Product Line: 3Acar Region: GMNA

Severity: 3 Primary Metric/Score: LaunchX / 0.025

7. Business case unacceptable

Vehicle / Product Description

Primary Project No: Cobalt Model Year: 2005

Other Project No(s): 05X001 Model Year Qtr:

Vehicle/Prop. #: Model Code:

Marketing Division: Chevrolet, Pontiac Hardware Stage:

Marketing Region(s): (VIN) Vehicle ID #:

Engine(s): Transmission(s):

Engine Serial #: Transmission Serial #:

Drive Type(s): Option(s):

Steering: PIMREP No:

Odometer Reading or Range in Miles from to

1st Level	(VPPS):	2nd Level (VPPS):	3rd Level (VPPS):	4th Level (VPPS)	
20 Chassis 1 S		1 Steering	Steering 4 Steering Column		
JPC:	FNA:	Part Name:		Part Number:	
	-	key cylinder		=	
Supplier(s) N	lame:	DUNS Code(s):	Part Year:	Drawing Revision Date:	
		-	-	01/01/1900	
Suspect Part(s) available?	Location of Suspect Part(s)	PIM (EPS	/PAD) EPN	

Incident Description	
Date first reported: 10/29/2004	Complaint Category: Loose
Incident Discovered by: Gary Altman	Discoverer's Dept:
Discoverer's Phone:	Plants w/ same Problem:

Source Level 1:	Source Level 2:	Source Level 3:
Physical Test - Field Test	Other Loc	Chassis/Powertrain

Incident Description: (Give detailed description of incident)

While driving the vehicle the drivers knee bumped the key in such a manner as to turn off the ignition

Preliminary Root Cause: (Give preliminary Root Cause if known, do not speculate!)

low key cylinder torque/effort

Potential Root Cause Champion: (Select potential Root Cause Champion.) Re-Assign Potential Champion

Department : Chassis & Powertrain *** Suspension - Steering - Structures & Mounts (Warren)

Gannon, Kevin G. Phone: or:

Name :

Fax:

Procedure:	% Complete	Driving Conditions:	Environmental
(Test Schedule)	(Test Schedule):		Conditions:
Odometer:	Vehicle Test:	Part Durability:	Part Test:

	• • •
	Containment
	Plant Information
	i fairt information
1	
	Description of Plant Containment:
	Description of Plant Containment:

Plant	4 4	VIN:	Breakpoint Da	ite: Contac	t Person:	Tel. No:	

Field Information Description of Field Containment:

Breakpoint Date: Contact Person: Tel. No:

Involved Components	3		
Component:	Plant:		
Originator Information			

Doddingin Originator. ALAN O	STORCK/US/GM/GMC	<u>11/19/2004 11:</u>	42:31 AM
Location: Milford P	roving Ground Building 104	Phone:	
			cle Performance *** Vehicle
Dynamic	s & Control Systems *** Ve	hicle Dynamics Ride & Ha	indling Small & Midsize Cars

Last Modified by	Dennis L. Korinek/US/GM/GMC 03/01/2005 08:00:31 AM	
History	Dennis L. Korinek/US/GM/GMC - 03/01/2005 07:00:31 AM	
-	Blendi Sullaj/US/GM/GMC - 02/04/2005 10:14:21 AM	
	Blendi Sullaj/US/GM/GMC - 02/04/2005 10:03:55 AM	
	Blendi Sullaj/US/GM/GMC - 02/04/2005 09:02:33 AM	
	Blendi Sullaj/US/GM/GMC - 02/01/2005 02:00:56 PM	
	Scott Sherman/US/GM/GMC - 01/12/2005 02:26:25 PM	
	Scott Sherman/US/GM/GMC - 01/10/2005 09:02:07 AM	
	Kevin G. Gannon/US/GM/GMC - 01/10/2005 07:53:38 AM	
	Nancy Burder/US/GM/GMC - 01/07/2005 11:32:14 AM	
	Nancy Burder/US/GM/GMC - 01/07/2005 11:32:05 AM	

Issue Number: N172404

Part - Location: Ignition Key Cylinder Assembly -Column - Steering

Complaint:	vehicle can be keyed off with kno	ee while driving		
Vehicle Line:	Prioritization Ranking by:	Priority Val.:	Bypass:	Link:
3Acar	LaunchX	0.025	n	

Other Vehicle/Product Line(s) involved:

Marketing Division PPH MY Wave PPH MY V Vehicle Line 3A Total Not Applicable. Not Applicable	Assessment of Cus Customer	comor ou	Customer	Custo	omer	Customer	
/ Vehicle Line 3A Total Not Applicable. Not Applicable Not Appl	Survey:		Survey Category:				
Not Applicable Not Applicable Powertrain 1 Powertrain 3	Marketing Division	PPH	MY	Wave	PPH	MY	Wave
Not Applicable. Not Applicable Powertrain 1 Powertrain 3	/ Vehicle Line						
Not Applicable Powertrain 1 Powertrain 3	3A Total						
Not Applicable Powertrain 1 Powertrain 3	Not Applicable.						
Not Applicable Not Applicable Powertrain 1 Powertrain 2 Powertrain 4	Not Applicable						
Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Powertrain 1 Powertrain 3	Not Applicable						
Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Powertrain 1 Powertrain 2 Powertrain 3	Not Applicable						
Not Applicable Not Applicable Not Applicable Not Applicable Powertrain 1 Powertrain 2 Powertrain 3	Not Applicable						
Not Applicable Not Applicable Not Applicable Powertrain 1 Powertrain 2 Powertrain 3	Not Applicable						
Not Applicable Not Applicable Powertrain 1 Powertrain 2 Powertrain 3	Not Applicable						
Applicable Not Not plicable 8 Powertrain 1 9 Powertrain 2 9 Powertrain 3 9	Not Applicable						
Applicable							
Powertrain 2 Powertrain 3							
Powertrain 3	Powertrain 1						
	Powertrain 2						
Powertrain 4	Powertrain 3						
	Powertrain 4						
Report Date: Customer Survey Specialist:	Report Date:			Customer 8	Survey Specialist:		

Assess	ment of impac	t on warran	ty					
Sales Re	egion:				Currency:	\$US		
Labor	Codes:							
Primary:								
2nd Lab	or Code:							
3rd Labo	or Code:							
4th Labo	or Code:							
5th Labo	or Code:							
				Months	in service			
Measure	Marketing Division / Vehicle Line	0	2	6	12	24	36	Model Year
IPTV	3A Total	0	0	0	0	0	0	
	Not Applicable.	0	0	0	0	0	0	
	Not Applicable	0	0	0	0	0	0	
IPTV	Not Applicable	0	0	0	0	0	0	

IPTV	Not	0	0	0	0	0	0	
IPTV	Applicable Not Applicable	0	0	0	0	0	0	
IPTV	Not Applicable	0	0	0	0	0	0	
IPTV	Not Applicable	0	0	0	0	0	0	
IPTV	Not Applicable	0	0	0	0	0	0	
IPTV	Not Applicable	0	0	0	0	0	0	
IPTV	Not Applicable	0	0	0	0	0	0	
IPTV	Powertrain 1	0	0	0	0	0	0	
IPTV	Powertrain 2	0	0	0	0	0	0	
IPTV	Powertrain 3	0	0	0	0	0	0	
IPTV	Powertrain 4	0	0	0	0	0	0	
Cost / Vehicle	3A Total	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable.	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Not Applicable	0	0	0	0	0	0	
Cost / Vehicle	Powertrain 1	0	0	0	0	0	0	
Cost / Vehicle	Powertrain 2	0	0	0	0	0	0	
Cost / Vehicle	Powertrain 3	0	0	0	0	0	0	
Cost / Vehicle	Powertrain 4	0	0	0	0	0	0	
Solution (%):	Effectiveness							
Report	Date:			W	arranty Specia	alist:		
Warran	ty Comments:							

	of internal measurements				
Plant	% Direct Run Improvement (< 100) GCA Value	GM Rating	Ergonomics	Productivity
		Упшин <u>и</u> што по			

Report Date:			
Owner of Information:			
Assessment of Aftersales In	npact		
FPR No.:			
Metric: No of Cas	es: Comments:		
TAC:			
CAC:			
Buybacks:			
EPR:			
Cost Reduction			
Type of Cost Reduction:		Tracking Number:	
Marketing Division /	Amount of Reduction (\$U\$	S):	
Vehicle Line			
3A Total	0		
Not Applicable.	0		
Not Applicable	0		
Powertrain 1	0		
Powertrain 2	0		
Powertrain 3	0		
Powertrain 4	0		
Report Date:			
Cost Reduction Comments:			
Risk Assessment Number /	EMEA		
Marketing Division /	FMEA Severity:	FMEA Occurrence:	FMEA Detection:
Vehicle Line			
3A Total			
Not Applicable.			
Not Applicable	# # # # # # # # # # # # # # # # # # #		
Not Applicable			
Not Applicable			
Not Applicable			
Powertrain 1			
Powertrain 2			
Powertrain 3			
Powertrain 4			
Regional Information			

Description Value		
	Descrip	
Physical Test	Approva	esolution Team
GMM ICE PPH	4	ii Date
5	CTF Re	neat
Y	Occurre	
ZDW Plant&Value	8	
Direct Run Loss	PDT	
Highlight Number	12	
13	Build Se	equence
15	16	
Sequence Number	18	
Local	Feedba	ck Owner
Document Information		
	Burder/US/GM/GMC 01/0	07/2005 11:31:15 AM
Last Modified by		
Issue Number: N172404		
	Vilindar Assambly Column 9	Steering
Fait - Location. Ignition Rey	Cylinder Assembly -Column - S	Steering ————————————————————————————————————
Complaint: vehicle can b	e keyed off with knee while dri	vina
		¥nig
Assign Root Cause Char	ipion	
Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering	Champion: Sherman, Scott - Phone:	Fax:
Nomination Comments:		
Champion History		
Champion History:		
Champion History: Assign Root Cause Char	npion Designee	
	npion Designee Champion:	
Assign Root Cause Char Department: Suspension - Steering - Structures &		
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body	Champion:	
Assign Root Cause Char Department: Suspension - Steering - Structures &	Champion:	
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering	Champion:	
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body	Champion:	
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering	Champion: Sullaj, Blendi - Phone:	
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History:	Champion: Sullaj, Blendi - Phone:	
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History:	Champion: Sullaj, Blendi - Phone: Mal Designee	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter	Champion: Sullaj, Blendi - Phone: Mal Designee	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter	Champion: Sullaj, Blendi - Phone: nal Designee Department: Exte	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter	Champion: Sullaj, Blendi - Phone: nal Designee Department: Exte	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter Assignment Date:	Champion: Sullaj, Blendi - Phone: nal Designee Department: Exte	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter	Champion: Sullaj, Blendi - Phone: nal Designee Department: Exte	emal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter Assignment Date: External Designee History:	Champion: Sullaj, Blendi - Phone: nal Designee Department: Exte	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter Assignment Date: External Designee History: Root Cause Analysis	Champion: Sullaj, Blendi - Phone: mal Designee Department: Extended Service	
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter Assignment Date: External Designee History: Root Cause Analysis Target Date: Actual	Champion: Sullaj, Blendi - Phone: nal Designee Department : Extended Sullage Department : Extended Sullage Date: Actual date re	ernal Designee:
Assign Root Cause Char Department: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Champion Designee History: Assign Root Cause Exter Assignment Date: External Designee History: Root Cause Analysis	Champion: Sullaj, Blendi - Phone: nal Designee Department : Extention Name : Date: Actual date re	eported by champion:

Author: Blendi Sullaj/US/GM/GMC on 01-Feb-2005 14:00

There are two main reasons that we believe can cause a lower effort in turning the key:

- 1. A low torque detent in the ignition switch
- 2. A low position of the lock module in the column.

Looking at the first reason, one would immediately think that changing/increasing the ignition switch torque effort would be a good solution. After talking to Ray DeGiorgio, I found out that it is close to impossible to modify the present ignition switch. The switch itself is very fragile and doing any further changes will lead to mechanical and /or electrical problems.

There are two other ways we can approach towards possible solutions:

- a. Modifying/adding detent to lock module cam shaft
- b. Adding detent to the lock cylinder-lock housing interface at RUN position (Similar to T257).

We discussed with our supplier regarding a possible torque increase from the cam shaft. Even though this is possible, it involves changes in tooling for almost all components that constitute the lock housing.

It seems that adding a detent to the key cylinder-lock housing interface at RUN position will be the most viable solution.

Problem Solving Methodology: Document the Solving Process seen a	s appropriate			
Other Statistical Methods				
Potential Solution Champion / D	epartment:			
Department: or Name:	Potential Champion: Suspension - Steering - Structures & Mounts (Warren) *** Frame-Body Integral Steering Sherman, Scott Phone: Fax:			
	Field Remedy Requested?			
Engineering	No			
⊉ Root Cause Summary:				
The low key effort from RUN to AC	CC seems to occur because of a combination of two main reasons:			
1. Not enough detent in the ignition switch				
The lock module is a low mount	ed one.			
The possibility of adding a detent i	n the lock cylinder to lock housing interface is being investigated.			

Document Inform	ation			
Document created	by: Nancy Bı	ırder/US/GM/GMC	01/07/2005 11:31:15 AM	
Last Modified by:	Blendi Sι	ıllaj/US/GM/GMC	02/04/2005 10:14:21 AM	
Issue Number:	N172404			
Part - Location:	Ignition Key Cy	linder Assembly -Colu	mn - Steering	SOL.
Complaint:	vehicle can be	keyed off with knee wh	ile driving	SOL
Assign Soluti	on Champion			
Department:		Champion:		
Suspension - Steer Mounts (Warren) ** Integral Steering		Sherman, Scott - Phone:	Fax:	

09-50026-mg Doc 12640-9 Filed 04/23/14 Entered 04/23/14 18:52:12 Exhibit 9 Pg 9 of 16

Nomination Comments:		
Champion History:		

Assign Solution Champion Designee

Department:

Suspension - Steering - Structures & Sullaj, Blendi - Phone:

Mounts (Warren) *** Frame-Body
Integral Steering

Champion Designee History:

Assign Solution External Designee

Assignment Date: Department: Champion Designee: Name:

External Designee History:

Develop Solution / Make Decision on Solution Target Date: Actual Date: Actual date reported by champion: 03/06/2005 03/09/2005 ☑ Description of Solution Investigation Progress and Verification:

Author: Blendi Sullaj/US/GM/GMC on 01-Mar-2005 16:07

Several possible solutions were presented to CPIT on 02/18/2005 See the folloing file for a better understanding of the solutions presented.



GMX001 Lock Module Detent in RUN 20050216.ppt

We were advised to look at the key slot change as a containment. This is in order to reduce the lever arm and as a result the pulling load.

We discussed the above solutions with Ray DeGiorgio (ignition switch DE) and Dave Trush (Lead Engineer, Closures)

on 02/28/2005. After a thorough discussion, the following file was generated:



This file was presented in VAPIR on 01/03/2005. The advised was the same as CPIT; to look into the key slot change as a containment (i.e., look into pricing and timing for the change).

Next step is to provide the required information (key slot change) to CPIT on 03/04/2005

Cost estimate to modify vehicle key for Cobalt



Cost estimate to change the vehicle key for the Cobalt only per David Trush 3/04/05

Author: Blendi Sullaj/US/GM/GMC on 09-Mar-2005 9:36

Per GMX001 PEM's directive we are closing this PRTS with no action. The main reasons are as following:

- 1.All possible solutions were presented in CPIT and VAPIR:
 - a. The lead-time for all the solutions is too long.
 - b. The tooling cost and piece price are too high.
- c. None of the solutions seems to fully countermeasure the possibility of the key being turned (ignition turn off) during driving.

Thus none of the solutions represents an acceptable business case.

03/09/2005 - Blendi Sullaj

Aftersales Field Fix:	N/A

EWO #:	Approval / Release Date (i.e. CAB, etc):	Validation Part Availability Date:	Date) of EWO:

EWO Part Actions				
New Part Number Required?	New Part Number			
◯ Yes ◯ No				
Stock Disposition Domestic	Stock Disposition Export	Service Disposition (Retailer)	Service Interchange	
Exchange Aftersales Wareho Engineering/VLDM decision?)			
	Potential Champion:			
or	Suspension - Steering - Structure	es & Mounts (Warren) ***	Frame-Body Integral Steering	
Name:	Sherma <u>n, Scott</u>			
l l	Pho <u>ne:</u>			
F	ax:			

Summary
Solution Type
Solution Summary:
Per GMX001 PEM's directive we are closing this PRTS with no action. The main reasons are as following:
1.All possible solutions were presented in CPIT and VAPIR: a.The lead-time for all the solutions is too long. b.The tooling cost and piece price are too high. c. None of the solutions seems to fully countermeasure the possibility of the key being turned (ignition turn off) during driving.
Thus none of the solutions represents an acceptable business case.

Document Information			
Document created by: Last Modified by:	Blendi Sullaj/US/GM/GMC Blendi Sullaj/US/GM/GMC		
Issue Number: N172			
Location:	ion Key Cylinder Assemb		IMP
Complaint: vehice ve	cle can be keyed off with	n knee while driving	
Assign Implementa	ation Champion		
Department:	Champion:		
	ation Champion Des	signee	
Department:	Champion:		
Assign Implementa	ation Champion Des	signee	
Company:	External Desig	jnee:	
Implement Solutio	in		
Target Date:	Actual Date:	Actual date reported by champion:	
Description of Implemen	ntation:		
Breakpoint(s)			
Plant:	Date:	VIN / Val Vehicle	#:
i ki de il tribili di			
Breakpoint(s) Involved C Plant*Component / Sup		Serial - No:	Date Breakpoint:
Панс общроноль с сур	pilet i arti	Jena no.	Date Dreampoint.
Component/Part:	Plant / Supplier:	Serial - No:	Breakpoint:
Department :	Potential Cha	ampion:	
or Name :			
Service Bulletin			
Service Bulletin Reques	sted: Service Bulletin #	Bulletin Release Date:	Applicable Region/Country:
Service Bulletin Name/	/Desc.:		
Summary			
Implementation Summ	nary:		
Document Information			
Document created by:			
Last Modified by: Issue Number: N172	2404		
		LL Calling Charles	(大)
Location:	ion Key Cylinder Assemb cle can be keyed off with		FB

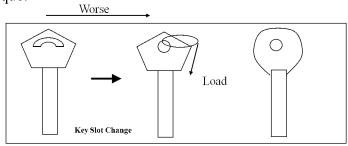
Assign Fee	edback Champion			
Department:	Champion:			
Assign Fee	edback Champion Designee			
Department:	Champion:			
Assign Fee	edback External Designee			
Company:	External Designee:			
Feedback				
Target Date:	Actual Date: Actual date reported by champion:			
◯ Yes ◯ No	n fix the problem? ta analysis to support the above conclusion:			
Feedback Sun	nmary:			
Document Info Document create Last Modified by	ed by:			
Issue Number:				
⊉ Part - Location:	Ignition Key Cylinder Assembly -Column - Steering Field Remedy			
Complaint:	vehicle can be keyed off with knee while driving	,,,,,,,,,,,		
	d Remedy Champion			
Department:	Champion:			
Field Reme	edy			
Field Remedy (Comment:			
Last Break Po	oint			
Date	VIN / Part Number Measure			
Document Info				
Document create Last Modified by				

Issue Number:	N172404	(A)	
⊉ Part - Location:	Ignition Key Cylinder Assembly -Column - Steering vehicle can be keyed off with knee while driving		
☑ Complaint:			
Solution for r	new Design / Project		
Shall a Lessons Le	earned Request be sent?		
Step when issue w Learned:	vas flagged as Lessons		
Flagged by:			
Standard Work Ele	ement:		
Lesson Learned N	umber:		
Has the issue beer Learned database	n entered in the Lessons		
Document Inform	nation		
Document created	by:		
Last Modified by			

GMX001 Lock Module Detent in RUN

Containment Solution

➤ Changing slot in the key in order to reduce lever arm and thus the torque:



✓It was determined that the lever arm is still present due to fob ring. This may even cause a higher pulling load if fob ring is wedged between the slot and the sharp corner of key.

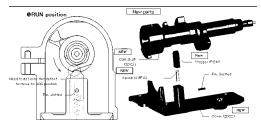
✓ Can be considered as a containment if the shape of key is changed to round corners

1

GMX001 Lock Module Detent in RUN

Partial Solution Design Concept

➤ Detent between lock cover and cam shaft:



- ✓ Partial solution based on engineering judgment. No experimental verification that detent is sufficient.
- ✓ If chosen, will drive changes and tuning efforts in ignition switch in order to avoid double detent feel.
- ✓Design has to become common between Delta, Theta and Kappa
- ✓ Can be combined with the new ignition switch presently sourced for GMT191/2/3 for better detent

2

GMX001 Lock Module Detent in RUN

Sure Solution Description

- ➤ Change from a low mount to a high mount lock module.
 - \checkmark It will considerably reduce the possibility of the key/key fob being pulled by driver
 - ✓ Can be combined with gear driven ignition switch design (Additive internal friction \rightarrow more detent)

